The Japanese Kudzu Vine

The New Forage, Nitrogen-Producing Plant so Rapidly Coming into Prominence Throughout the South

Plante that will grow forage and it, and by the fall of 1905 they had woody and rooted to the ground. Af- can be got rid of, and if it doesn't bethat will at the same time put nitro-covered a space of about 50x80 feet ter the first cutting each year the come a pest. To this I answer, plant (all the soil and act as a covering (all the is available between our vines are short and thickly set and it where it can stay, and you will er protection to the land, have a val- garden, barn, drive and neighbor's have no tendency to take root. that is being daily recognized by pasture iot) to a depth of two and "It has been suggested by high authe farmer and all those interested one-half fee, practically as is shown thority that this vine might prove of in agricultural pursuits and stock in the accompanying photograph.

pen of E. C. Peas, of Chipley, Fla., horse-shed and the fence on the sides, as its roots penetrate the soil that will be read with deep interest neighbor's side that I suspected its to a great depth in all directions, and by the farming class and all those in- value as stock feed. My horse sim- the vines, taking root at the joints, terested in stock raising. Mr. Fleas ply got down on his knees, reached are enabled to catch the drift on top has the distinction of having intro-under and nipped every leaf that and hold the soil beneath. duced and propagated the Japanese came within two feet of the bars, Kudau vine, the greatest thing yet while the neighbor's horses, when soil renovator or nitrogen gatherer

is a most important one to the south leaf in reach was eaten. ern farmer, for to successfully raise) stock he must have permanent pasture of good quality, something better of it for hay, and found it cured much but an average specimen, while I had than the native wiregrass, carpet grass or Bermuda grass. These are all desirable in the absence of anything better, but all combined fall short of keeping stock in perfect condition throughout the summer and tall even when stock have free access to an unlimited area.

The time is not far off when the farmer can no longer depend on the public range, and even now it pays to grow most forage in the field. We have for winter pasture, oats, rye, etc. Then there the native grasses for a while in the spring, and the velvet bean in the fall, but there is a gap between that can only be filled by the frequent planting and cultivation of various annuals, more or less unsatisfactory

"The forage plant that will tide the farmer and tsock raiser over the long, hot, dry summer, as well as the rainy season, will fill a long-felt want. Kud on will do it.

An ideal Pasture Plant

"After several years' experience with the Kudzu vine (pueraria themberginna). I find it a most admirable forage for this purpose. What is more, it is perennial; it is one of the first things to slart in the spring. and stays by us until after killing Expacts.

"It is ready to pasture here in west Fierida (latitude 3) degrees) by April 1, or even earlier, having the ground thoroughly covered with new growth by that time, and if desired for hay, growth by May as the velvet bean makes in an entire season. It comes again quickly after cutting, and in two weeks time has the ground almost obscured it is more easily cured pea hay, and subsequent experience ville this last winter specimens than the velvet bean, which it greatly has proved it retains its bright green showing upwards of two thousand of resembles in appearance and manner color even after exposure to the light these nodules to the plant no larger of growth. But it only needs to be and air for a year, and I have never than the one here shown. planted once and cultivated the first smelled sweeter hay. season taking care of itself after "I sent a small bale of the hay to that and all the owner needs to do the commissioner of agriculture at clusters of delicately fragrant blosto keep it cut, if wanted for hay. Tallahassee for examination, and here som of brilliant purple, much in the to turn the stock from one lot to is what the state chemist, Capt. R. E. same manner as the wisteria, but so another in pasturing. When divided Rose, says about it, in part: into three or four lots and pasturing ... Dear Sir-I enclose result of ica, and is propagated by means of in succession, more stock can be sup analysis of Japanese Kudzu vine hay. the rooted joints, set six to ten feet ported on a given area than by al. It compares favorably with cowpea lowing them full range

History of the Kudzu

its history in the United States dates nack to the Centennial at Philadel obtain to '76, when it was brought over Cowpea, 16.0 42.20 20.1 2.2 by the Japs to shade their buildings Velvet Bean .. 14.7 41.00 29.7 1.70 matured vines living over, at the exposition. It serves many Beggarweed. .. 21.7 30.20 24.7 2.30 purposes in Japan, being used as an Kudzu......16.59 32.81 40.09 1.68 though the richer the land the better A fine quality of starch and also fibre not quite so good as the beggarweed. it will succeed. When I bought my are made from its pulp. There it is planted on rocky hillsides and waste places, and land that would be otherwise practically useless is thus number to yield good returns. It has then pointed out that most all the and when we consider its many other; tralia flowers and other botanical in good qualities, it stands easily at the evolutions from Japan have prov. head of the list. on desirable nequisitions to American surkedto.r.

come the most important plant in tro- planting and cultivating the first seashowed in the south since the advent son serves for a life time, if desired. of cotton. While it has been grown, to the United States for over thirty vines by trampling on them, as with years as an ornamental vine, it re the velvet bean, and even if they do, malned for me to discover its great. the vines having rooted where touchcont possibilities as a forage plant for ing the ground, quickly put out new That seemed a few seeds at any certain time, as with most for at any certain time, as with most for three plants were stuck out and allowed to fight their way among the Japan to try it as a shade for age paints, but the earlier it is cut, age paints, but the earlier it is cut, lowed to fight their way among the and the oftener, the more hay it will weeds and briars. The first year it made only a few and the oftener, the more hay it will The first year it made only a lew produce. It seems best adapted as a "Bales of the hay and specimen pasture however, as one would exfeet of growth, but the second year pasture however, as one would expose the lawn perience the same trouble in harvestthe grass, and after the lawnmower had passed over it, the large ing the first cutting, each season, as the last two years, as well as at the dead leaves looked so bad we decided with the velvet bean, all after cut- Jamestown and Jacksonville exposito get rid of it.

The next spring 1904, I granded I have cut some heavy crops of velthem all out and was going to throw I have cut some heavy crops of velthem all out and was going to throw very successfully with both early in the spring of the year. I not them all out and was going to this vet beans very successfully with both early in the spring of the year. I put the brush pile, but my wife vet beans very successfully with both early in the spring of the year. I put and hence do not have to consume in them on the brush pile, but my and two horse mowers, and out an acre in February, 1908, and winter all that we can lay up in sumproposed planting them around it to one and two horse mowers, and out an acre in February, 1908, and winter all that we can lay up in sumproposed planting them around it to one and two horse mowers, and out an acre in February, 1908, and proposed planting them around while I have not grown the Kudzu to many of the plants had vines ten feet mer. they would not cover it and the extent of cutting with a mower, long May 1, though I expect it to take rion County Fair, December 16, 17 hide it from view, as it was not be them another year to get fully established rion County Fair, December 16, and 18, 1908, and see for yourself. trees, roses, ect., about the grounds. as easily cut and harvested, if not lished. trees, roses, ect., about the ground left until the vines get old and "I have been asked by many if it

Below we give an article from the creeping through the bars to the as preventing washes on the clay hilldiscovered as a forage and covering turned into that adjoining lot, would from the number of bacteria nodules plant as well as a nitrogen gatherer, make for the Kudzu vines the first that form on rootlets at certain stag-The question of permanent pasture thing and never leave until the last es of their growth, I have never seen

Rich in Nutrition

inestimable value in reclaiming the "It was not until the vines began wornout fields of the south, as well

its equal. The portion of a root shown in the accompanying cut bore "I began to investigate. I cut some 250 nodules, by actual count, and is

can be cut May 1. making as much Photo of Vines, June 1, 1907, Showing Growth on 12-foot Pole in Foreground, Made in Thirty Days From the Time Vines Reached the Base of the Pole.

quicker than the velvet bean or cow on exhibition at Tampa and Jackson-

and velvet bean hay. Your sample was particularly well cured and put up. Find the analysis of the sample Kudzu is a native of Japan, and is above the average farm-cured hay. Starch

Protein Sugar Fibre Fat 'The analysis shows a little bet-"'Yours, etc., "R. E. ROSE."

Nature and Growth, Etc.

Thus is will be seen that the Kudzu is second in point of feed value,

"As stated before, it is perennial and closely resembles the velvet The Kudzu vine is no exception, bean (belonging to the same great orand I believe is destined to soon be der of plants, Leguminosa), but one

thickly set and as easily handled as a not fail to create widespread interest can be bought at from \$2.50 to \$25 The next spring, 1904, I grubbed heavy crop of clover or parsley. Yet wherever shown.

Propagation and Planting

"The Kudzu produces numerous far as known it rarely seeds in Amerapart, and kept cultivated until the vines reach out, and prevent it.

"Just how far north it will succeed as it does here in Florida remains to be tested, though it is hardy as far up as Nova Scotia. There it merely sheds its leaves in cold weather, the

"The Kudzu seems to be adapted to any soil, rich or poor, wet or dry, land eleven years ago it would not make over five bushess of corn per acre, it was so worn out and run down, being one of the oldest pieces in cultivation here. . Since I got it, it has not had enough fertilizer, all ation, and yet the Kudzu appears to

tings being of short fine growth, tions and Georgia state fair, and did Marion county, Florida, where lands

never want to get rid of it so long as there is a good market for stock. A small patch plowed under last fall has only shown one or two plants this

"The first cutting of Kudzu hay each season is taken off before the vines have rooted sufficiently to in terfere with the cutting or raking, and after that there is seldom if any attempt to take root, as the growth then is so small and fine and closely set that the vines cannot trail on the ground, and consequently cannot take root. With a good strong plant to every foot of space, or even closer, (and Kudzu never crowds itself out), producing half a dozen or more vines from twenty-five to thirty feet in length, with numerous side branches, in a few weeks, or an equivalent in the shorter finer growth of after cuttings, one can form some sort of an idea of Kudzu's tremendous productiveness.

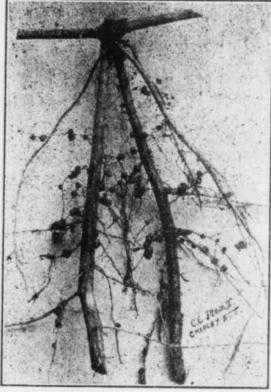
"The after cuttings (all after the first crop each year) are little, if any, more trouble to handle than a heavy crop of clover or pursley hay.

"It has been clearly demonstrated the past season that all stock is fond of it both as a pasture and a hay. friend having a piney woods cow that could not be induced to touch ordinary crabgrass, pursley or livet bean hay, was given a handful of Kudzu hay to take home and offer her, and his report was that 'the cow nearly tore the fence down trying to get to the hay that had been thrown down beside it.' A neighbor's hogs tore through the poultry netting fence a number of times to get at the growing vines.

"One correspondent writes that his chickens are very fond of it. Anothanything else. No wonder stock like it when we learn that it analyzes better than wheat bran, the new growth running as high as 17.60 per cent, pro-

"From the four cuttings of hay this season (the last being taken off September 18th), I have realized, by careful weights and measures, at the rate of 10.93 tons, dry hay, per acre.

"And when we consider that one acre of Kudzu on ordinary piney woods land will yield more in value than five acres of the best cotton, and at practically no expense, after once established, save the harvesting, and at the same time improves the soil instead of impoverishing it, we can



A three-months old root of the Kudzu, ers. Some roots have upwards of 2000 of these nodules.

located) to make one generous appli-store for the farmers of the south. be on rich land, and I cut thirty through nine of the southern states, I Disease may be inflicted directly to give death through various causes, pounds of dry hay from a space of was amazed at the seeming large pro- through God as a punishment. There but most of all death through the 15x15 feet in July, 1907, and in two portion of hilly, worn-out washed are various examples of this given beasts of the field. weeks after it was nearly knee deep land, as seen from the car window. in the scripture; for instance, Miriam It may be a forced interpretation, again. Vines from a mature plant Land that is bringing absolutely no in a sin against Zipporah, and Uzziah, it may be an erroneous exegesis, but have made the enormous growth of returns to its owners, and upon which in his profanely entering the Holy of it would seem to me the beasts of 28 feet in two weeks' time, with half taxes must be paid. I could see 'in Holies, were both afflicted with lep- the field do not include alone the a dozen side branches, some of them my mind's eye, Kudzu climbing over rosy. There are numerous other ex- wild animals that destroy. True, twelve feet long, and yet that land those hilly, rocky places and eventu- amples. Again, disease may be from thousands die annually through the has never been broken or cultivated ally converting them into profitable the power of evil, or the Devil, onte of serpents; thousands annually in Florida Homeseeker.

But if you are loking for the best section in which to locate, come to such instances, as a general thing, it tions from the face of the earth. per acre, according to location and

F. W. DITTO, Real Estate Dealer,

Ocala, Fla.

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THE PALE HORSE AND HIS RIDER great lence.

Sunday, March 14th, 1909, at the Baptist church, and reproduced at Ocala, Florida.)

The Scriptures 3 John 2: "Beloved. wish, above all things, that thou struck them down. mayest prosper and be in health. even as thy soul prospereth."

sat on him was Death, and Hell followed with him. And power was givwith the beasts of the earth."

. . .

picted in the Word of God, is one or when we know its source of cure. health. The Bible teaches us that in of life, that he became a living soul. sorrow and the pangs of death. He meant for him to be well; that he to disturb him by night.

trance that brought death into the less terrible. world. This death was of a two-fold But any diseased person, man, wokind-a spiritual death, which meant man or child, regardless of the cause, a separation of the soul of man from should have the profound pity and his Creator; and physical death, that sympathy of all. Even though the meant the dissolution of body and

sparks fly upward.

fering: blindness of the eyes, palsied his message. hands, weakened brains, congestive But sympathy and sorrow are not

sting, and the grave of its victory. be said of him: "Beloved, now are Lazarus from his rocky sepulchre. we the Sons of God." It is a perfect I do not believe in the present day fication ultimately of the soul.

the spirit being alive, however, are costs money! such that the body can be subjected! In the wonderful vision that John mayest be in health."

one-half diameter, showing over 150 is death, it will be done away with with his drought, and blasting the bacteria nodules of nitrogen gather. by the power of the Son of God unto green fields with his curse; and the told (on the part where the vine is out wonder what else Kudzu has in cerned, will go to show that as indi- of Death, going forth in his hideous vidually applied they are the result journey, dogged by Hell itself. Unto "On an extended trip last fall of any one of several different things, this figure was given power to slay,

transgression at the same time.

ance, but ignorance itself is no excuse forth with startling vividness their before the law. In the study of his-deadly beings. Indeed, they are best tory we are compelled to look back known by their results, and it was a

with untold sorrow, and with a unspeakable, at the ignorance of meaand of nations, which resulted great epidemics of plague and peat

The Bubonic plague, Asiatic cholera, yellow fever, small pox, typhoid (Sermon preached by C. C. Carroll, and others of similar type, have carried off their thousands, yea, tens and the request of the Womna's Club, hundreds of thousands, and their vietims were ignorant of either the source or cure of the malady that

The unsanitary conditions of the dark ages, and the middle ages, and, Rev. 6:8: "And I looked, and be-|in fact, modern ages, is largely, alhold a pale horse; and his name that most entirely, the source of disease. Most diseases have their filth-birth. en unto them over the fourth part A witty Frenchman, in speaking of of the earth, to kill with sword, and the middle ages, spoke of them as a with hunger, and with death, and thousand years without a bath. Uncleanliness is pathogenic.

Again, disease may be the result of The ideal condition of man, as de-negligence and carelessness, even

And last to be mentioned, disease the beginning when God created man may be the result of infection, carryof the dust, or elements of earth, and ing with it no moral taint, no morbreathed into his nostrils the breath al obliquity, but only the heaviness of

Whatever may be the causes of disknow no disease, nor sorrow; there eases, whether they be the results of was to be no pain attached to his transgression of the law, moral or waking hours, and no troubled dream physical; whether they be inherited; whether they be of filth; whether The work of his hands was to be they be through carelessness or negaccomplished, but without the sweat ligence; whether they be through inof his brow. It was sin and its en- nocent infection-they are none the

suffering one can say with the psalmist: "Thou hast made me to possess This spiritual death brought with the sins of my youth, and my sin is it anxiety, and six rooted sorrow in in my bones," nevertheless, sorrow the brain, diseased the mind, and and sympathy should be his portion. made man prone to trouble as the And how doubly great should be that sympathy, and that unutterable love, This physical douth was to be pre for the innocent ones unto whom this ceded by every phase of physical suffell harbinger of death has brought

lungs, dwarfed bodies, lame feet; in sufficient; to weep with those who fact, all the ills to which flesh is heir. weep is not enough, in the light of The picture of man redeemed by the dictates of self-preservation, race our Lord and Savior, Jesus Christ, is preservation, scientific demonstration the picture of a perfect man-a man and the law of God. When Jesus whose soul is in narmony with his Christ came into the world, one of the er that rabbits eat it in preference to God, and whose body, in the power of strongest proofs he offered of his diits resurrection from the dead, is per- vinity was the power he exercised fect. From his mind sorrow and sigh- over the diseases of the body. He ing shall flee away, and the Son of laid his cool hand upon the brow of God shall wipe away all tears from the leper, and the scales of leprosy his eyes. Pain shall fall from him fell away. His soothing voice banlike a garment; age shall lose its ished the fever from the veins of its power; death shall be robbed of its victim. His potent finger tips touching the eyes of the blind brought Lack This plan of redemption, however, heavenly day unto those dark crbs. for man, through the vicarious atone- The very hem of his garment was inment of the S on of God, is two-fold stinct with the grace of healing. He in its process. So far as the spirit- caught Jairus' daughter by the hand. ual mind is concerned, repentance to- and she awaked from her sleep of ward God, and faith in the Lord Jesus death. The pronation of his arm stay-Christ mean a regeneration, so that ed the funeral procession, and restorne becomes a new creature in Christ ed unto the widow of Nain her only Jesus. He passes out from under the son. The vocal command from those law of sin and death into the glorious lips, soon to become themselves blue liberty of the children of God. It can with dissolution, called forth the dead

work of salvation, as Christ is the end and time we have the divine gift of of the law for righteousness to all healing, such as Christ possessed, that believe, and it means the sancti- and the apostolic day knew, but I do believe we have the power at the The physical effects, however, of present time, in the light of the laws this salvation are delayed in their fi- of nature which we have searched nal powers until the resurrection of out, and the laws of God we have rethe dead, so that the spirit is alive be- ceived, to obviate most of the physical cause of righteousness, but the body suffering of the world, and to prolong is dead because of sin. The effects of the days of man on earth. But it

unto the law of God, and the results received on the Island of Patmos, of that subjection will carry with there rode forth from under those them the fulfillment, to a great ex- mighty seals, the four horses, the tent, at least, of the desire of John, first white, upon which sat the conas quoted in the scripture: "Beloved, quering One, the red bestrode by the I desire above all things that thou power of war, with bloodshed to be his portion and carnage his mission. All disease is primarily the result The black, upon which was seated of sin, and in its last analysis, which ghastly famine, drying up the rivers all who believe. But the study of dis- fourth, the pale horse, upon whose ease, so far as individuals are con- gaunt withers was clinging the figure.

from a physical standpoint of the sins the more terrible, is through those Disease may be the result of wilful point of a pin, and so deadly that in transgression of nature's laws, and in meir multiplication they can wipe na-

will be found that there was a moral We have learned to know the greatest enemies of man's physical "Be not deceived, God is not mock-health are not alone the visible and ed: whatsoever a man soweth that tangible ones against which the norshall he also reap. He that soweth mal eye, or ear, or nostril, or taste to the flesh shall of the flesh reap or touch, can give warning, but those invisible foes so small it requires the Disease may be the result of ignor- most powerful microscope to bring